



BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603

MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

## NOTICE OF ACCEPTANCE (NOA)

[www.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)

**Dorma Automatics, Inc.**  
**924 Sherwood Drive**  
**Lake Bluff, IL 60044**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "ESA 300" Aluminum Automatic Sliding Glass Door (O-Sx-Sx-O) w/ Breakout**

**APPROVAL DOCUMENT:** Drawing No. **05-DOA-0004**, titled "ESA 300 Series Automatic Sliding Glass Doors (Large Missile-Impact Resistant)", sheets 1 through 4 of 4, prepared by Engineering Express, dated 05/09/06, and last revised on 08/10/09, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

- Limitation:** 1. Fixed panel top Rails to be secured with #10x 3/4"SMS @6" OC at Head and bottom Rail with #10x 3/4"SMS @6" OC at bottom guide.  
2. Electrical devices are not part of this approval and must be reviewed by corresponding authority.  
3. See applicable Design Pressure rating per glazing type B, C or D.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 07-0625.03(06-0518.04 ) and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

NOA No 09-0415.06

Expiration Date: February 01, 2012

Approval Date: October 14, 2009

Page 1

MIAMI-DADE COUNTY  
APPROVED

8  
9/22/19

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- A. DRAWINGS** (*Transferred from NOA# 07-0625.03(06-0518.04 )*)
1. Manufacturers die drawings and sections.
  2. Drawing No. **05-DOA-0004**, titled "ESA 300 Series Automatic Sliding Glass Doors (Large Missile-Impact Resistant)", sheets 1 through 4 of 4, prepared by Engineering Express, dated 05/09/06, and last revised on 08/10/09, signed and sealed by Frank L. Bennardo, P.E.
- B. TESTS** (*Transferred from NOA# 07-0625.03(06-0518.04 )*)
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94 (Not Performed)  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
- Along with marked-up drawings and installation diagram of an automatic aluminum Sliding Glass Door, prepared by Hurricane Test Laboratory, LLC, Test Report No(s). **HTL-0357-0107-06** (Sp#1 &2) dated 01/04/06-03/30/07 and **HTL-0357-0605-05** (Sp#1, 2 &3) dated 08/25/05-09/20/05, signed & sealed by Vinu J. Abraham, P.E.
- C. CALCULATIONS**
1. Anchor Verification Calculations, complying w/ FBC-2007, dated 01-26-2009 and last revised on 08/10/09, prepared, signed and sealed by Frank L. Bennardo, P. E.
  2. Glazing complies with ASTM E-1300-02 &-04
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **08-0520.08** issued to issued to Solutia Inc., for "Vanceva Composite Glass Interlayer", expiring on 12/11/2013.
  2. Notice of Acceptance No. **04-0818.01** issued to E.I. DuPont DeNemours, for "Sentry Glass ® 457", expiring on 01/13/2010.
- F. STATEMENTS**
1. Statement letter compliance to FBC-2007, dated April 08, 2009, signed by Frank L. Bennardo, P. E.
  2. Statement letter of "No financial interest" dated 05/09/06, as part of file # 06-0518.04.
  3. Statement of lab compliance, as part of the above referenced test report.
- G. OTHER**
1. This NOA revises NOA # **07-0625.03(06-0518.04 )**, expiring February 01, 2012.

*Ishaq I. Chanda*

**Ishaq I. Chanda, P.E.**  
Product Control Examiner  
NOA No 09-0415.06  
Expiration Date: February 01, 2012  
Approval Date: October 14, 2009

# ESA 300 AUTOMATIC SLIDING GLASS DOOR

## LARGE MISSILE IMPACT RESISTANT - FULL BREAKOUT

FRANK L. BENNARDO, P.E.  
# PE0046549

08/10/2009

**ENGINEERING EXPRESS**

160 SW 12th AVENUE, #106  
DEERFIELD BEACH, FL 33442  
Ph: (954) 354-0660 FAX: (954) 354-0443  
WWW.ENGPRESS.COM

CERT. OF AUTH. #0885  
A FRANK L. BENNARDO, P.E., INC. INNOVATION

**DORMA AUTOMATICS**

924 SHERWOOD DRIVE  
LAKE BLUFF, ILLINOIS 60044  
WWW.DORMA-USA.COM

**DORMA**

ESA 300 SERIES  
AUTOMATIC SLIDING GLASS DOORS  
(LARGE MISSILE IMPACT RESISTANT)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	AVL	CL	05/09/06
BCCO COMMENTS	AVL	CL	11/06/06
2007 FBC	RKB	CL	01/16/08

05-DOA-0004

SCALE: N.T.S. 01

PAGE DESCRIPTION:

1

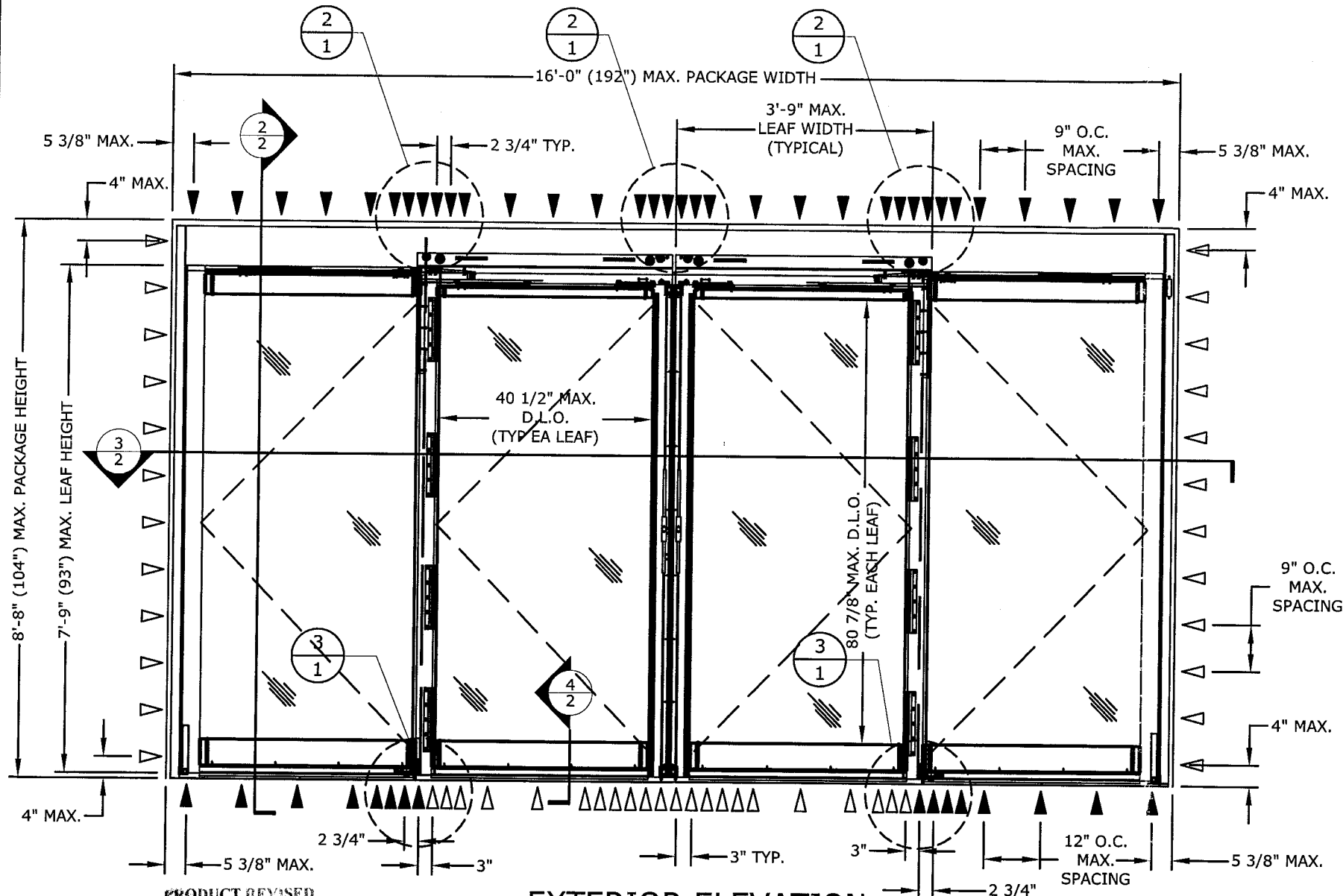
### DESIGN PRESSURE RATING

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED.	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED.	
GLAZING TYPES	"B", "C" OR "D" *	"B" *	"C" OR "D" *
POSITIVE	NOT APPROVED	+ 45.0 PSF	+ 52.4 PSF
NEGATIVE	NOT APPROVED	- 45.0 PSF	- 52.4 PSF

\* SEE GLAZING SCHEDULE ON SHEET "2"

### GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED & DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2007 FLORIDA BUILDING CODE - HIGH VELOCITY HURRICANE ZONE (HVHZ) - AND HVHZ TEST PROTOCOL TAS 201, 202 & 203 AS LARGE MISSILE IMPACT RESISTANT SYSTEM.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR  $C_d=1.6$  HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE & NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. WHERE SITE CONDITIONS DIFFER FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND ADDITIONAL IMPOSED LOADS. WOOD BUCKS NOT BY THIS PRODUCT MANUFACTURER SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE HOST STRUCTURE.
- THE PRODUCT DETAILED HEREIN HAS BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS & LOADS SHOWN ON THESE DRAWINGS.
- ALL ALUMINUM EXTRUSIONS ARE 6063-T5 OR 6063-T6 ALUMINUM.
- ALL UNITS ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS FOR ALL EXTERIOR DOOR INSTALLATIONS.
- ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, SPACED AS NOTED HEREIN. ANCHOR EMBEDMENT TO BASE MATERIAL DOES NOT INCLUDE WALL DRESSING OR STUCCO.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED, OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, EXCEPT INSTALLATION ANCHORS.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR COATED.
- STRUCTURAL SILICONE ADHESIVE IS APPLIED ATOP OF HEADER, JAMBS, AND BELOW SIDE GUIDE, SPACER, AND THRESHOLDS.



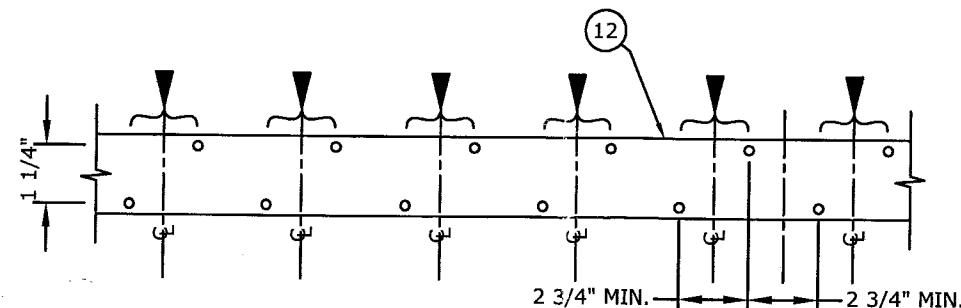
PRODUCT REVISED  
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Building Code  
Acceptance No. 09-0415-06  
Expiration Date FEB 01, 2012  
By Ishag J. Chank  
Miami Dade Product Control  
Division

### EXTERIOR ELEVATION

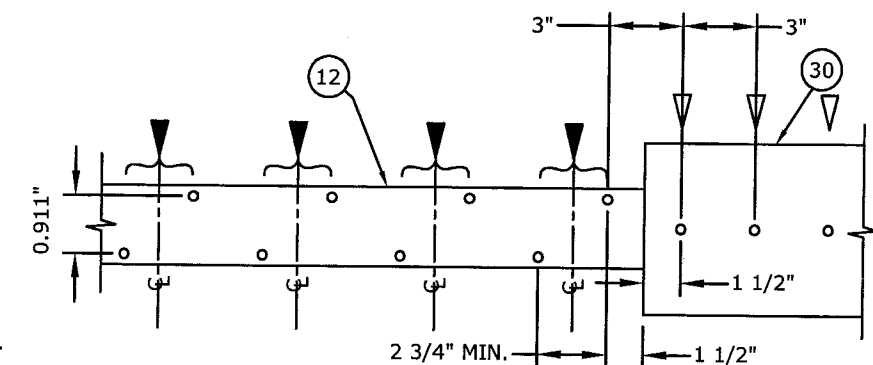
1 SO-SX-SX-SO (CONFIGURATION)  
1 N.T.S. ELEV.

### ANCHOR LEGEND:

- ▽ INDICATES SINGLE ANCHOR (INLINE)
- ▼ INDICATES STAGGERED PAIR OF ANCHORS (CENTERLINE SHOWN ON ELEVATION)

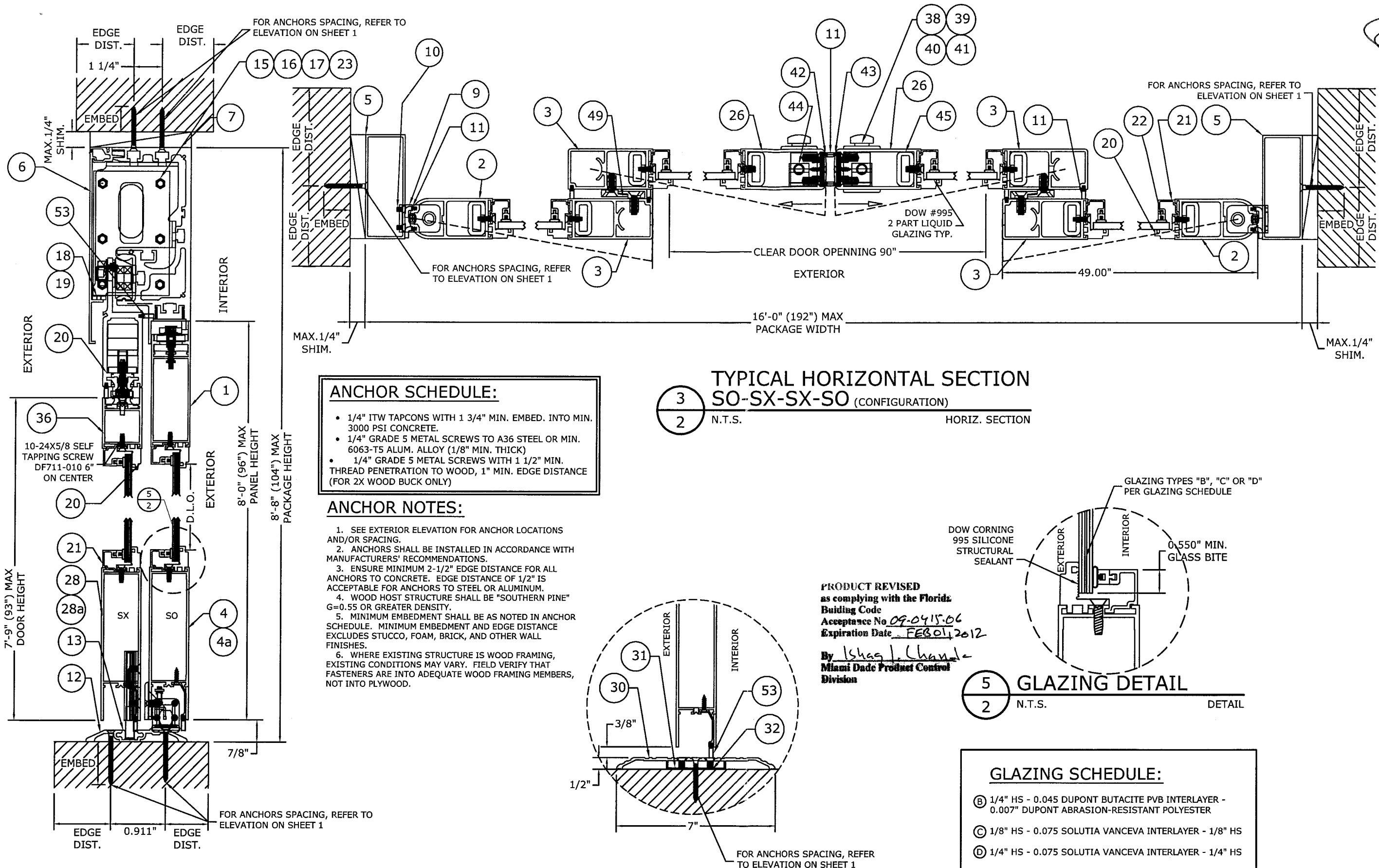


2 HEAD CLUSTER  
1 N.T.S. PLAN VIEW



3 SILL CLUSTER  
1 N.T.S. PLAN VIEW

08/10/2009 - 12:50pm rbarlett F:\01 Project Files\Dorma Automatics (DOA)\200505-DOA-0004 "ESA300" Full Breakout Auto Sliding Door, LMI (NOA)\05-DOA-0004\_02b ESA 300 LMI (NOA) - Copy.dwg



FRANK L. BENNARDO, P.E.  
# PE0046549

08/10/2009

**ENGINEERING EXPRESS**  
160 SW 12th AVENUE, #106  
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PH: (954) 354-0660 FAX: (954) 354-0443  
WWW.ENGEXP.COM  
CERT OF AUTH #6885  
A FRANK L. BENNARDO, P.E., INC. INNOVATION

**DORMA AUTOMATICS**  
924 SHERWOOD DRIVE  
LAKE BLUFF, ILLINOIS 60044  
WWW.DORMA-USA.COM  
ESA 300 SERIES  
AUTOMATIC SLIDING GLASS DOORS  
(LARGE MISSILE IMPACT RESISTANT)

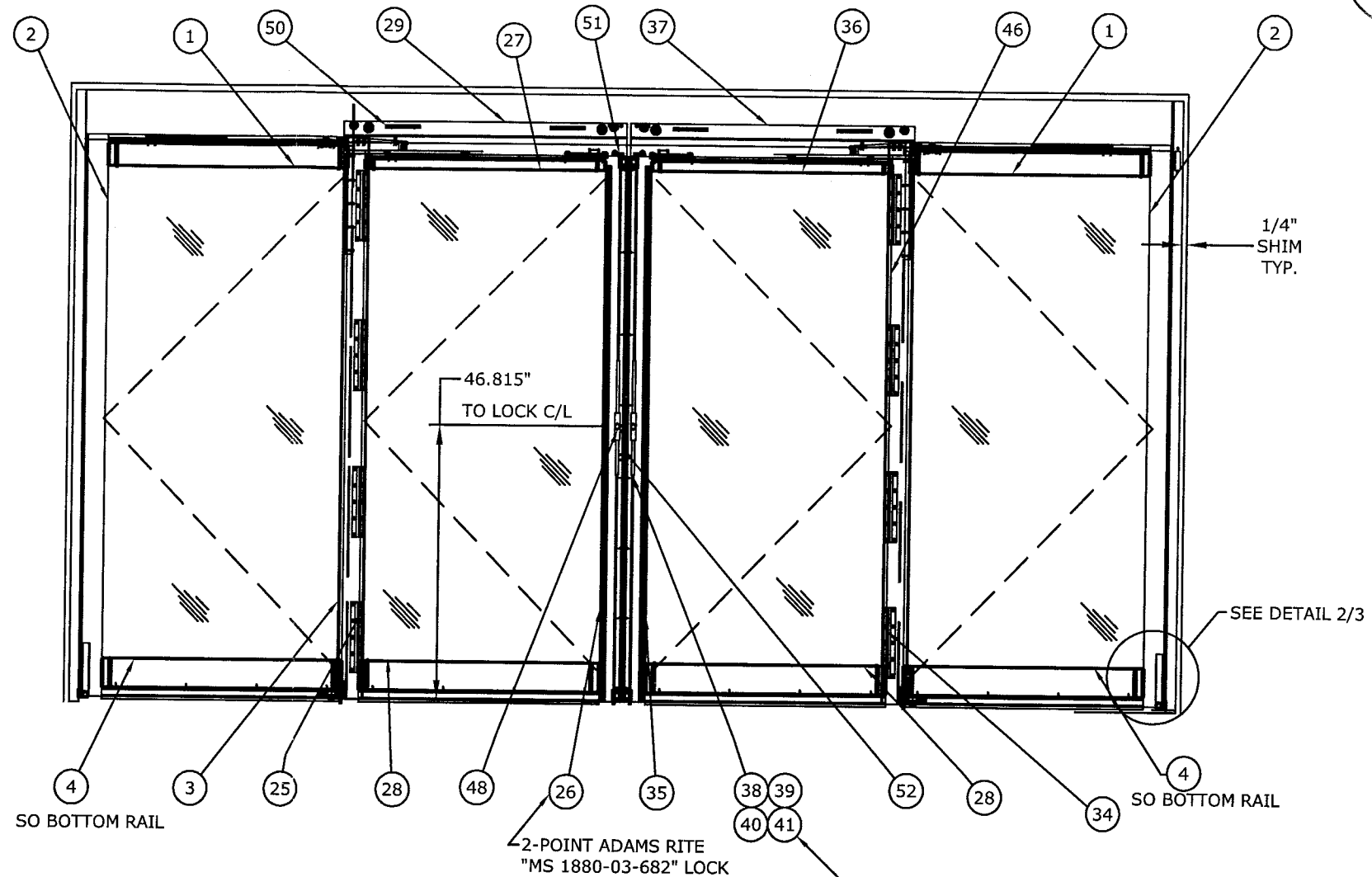
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INIT ISSUE	AML	CL	05/09/06
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05-DOA-0004  
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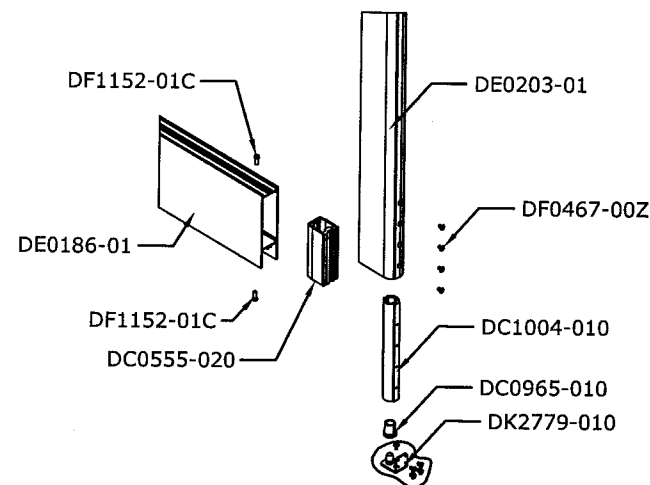
## BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	DE0199-03	SO TOP RAIL ASSEMBLY ESA300	2
2	DE0203-01	SO PIVOT ASSEMBLY ESA300	2
3	DE0202-01	SO INTERLOCK / PIVOT RAIL ASSEMBLY ESA300	2
4	DE0186-01	SO BOTTOM RAIL ASSEMBLY ESA300	2
4a	DE0187-02	9 1/4" ALTERNATE O BOTTOM RAIL PANEL	2
5	DE0200-01	JAMB DOUBLE POCKET	1
6	DE0158-03	HEADER FACEPLATE	1
7	DE0155-04	HEADER ASSEMBLY (REGULAR)	1
8	DE0159-02	HEADER ADAPTER	1
9	DS1979-010	SO BTM PIVOT ASSEMBLY	2
10	DF0628-00G	10-24X3/4 PHILPS FL CS.SS	8
11	DE2212-020	WEATHERSTRIP "13.4mm"	16
12	DE0195-010	BOTTOM TRACK	1
13	DE0234-010	TRACK CAP	1
14	DC2185-010	SIDE CARRIER	2
15	DC1498-010	HEADER BACK BLOCK	2
16	DF0728-01Z	1/4-20X1" HX-HD MS GR5 ZINC	10
17	DF0939-01Z	A6.4(M6) SPRING WASHER ZINC	10
18	DC0831-010	COVER HOLDING BAR	1
19	DF0999-01Z	10-24X3/4" PH FL HD UNC ZINC	4
20	DE1767-010	GLASS STOP EXT.	1
21	DE0210-010	GLASS STOP 1/4" SNAP	1
22	DE0148-020	GLAZING BEAD CO-EXTRUSION	1
23	DF0385-010	RIVET NUT 1/4-20 SF UNC IFC STEEL	10
26	DE0201-02	VERTICAL LOCK RAIL	1
27	DS1727-010	SX TOP RAIL ASSEMBLY ESA300	1
28	DE0188-01	SX BOTTOM RAIL ASSEMBLY ESA300	2
28a	DE0187-02	9 1/4" ALTERNATE SX BOTTOM RAIL ASSEMBLY	2
29	DS1724-010	CARRIER ASSEMBLY	1
30	DE0246-01A	THRESHOLD BI-PART (MACHINED)	1
31	DC0837-010	BOTTOM PLATE	1
32	DF0848-01Z	1/4-20X1/2 FL HD SOC SC ZINC	4
34	DS1831-010	SX PIVOT ASSEMBLY ESA300	1
36	DE0162-020	SX TOP RAIL ASSEMBLY ESA300	1
37	DS1833-010	CARRIER ASSEMBLY	1
38	DC0572-00A	LOCK CYLINDER RING CLEAR/DC0572-00B	1
39	DC0571-00A	KEY LOCK CYLINDER -CLEAR/ DC0571-00B	1
40	DC0621-00A	THUMB KEY-CLEAR/ DC0621-00B-DARK BRONZE	1
41	DC2057-010	3 POINTS CONVERTER ADAMS RITE P/N "MS 4016-20-02"	1
42	DC1766-010	ASTRAGAL- L.H	1
43	DC1701-010	ASTRAGAL- R.H	1
44	DC1497-010	LATCH BLOCK	4
45	DC1700-010	PUSH BAR	2
46	DS1827-010	SO-INTERLOCK RAIL ASSEMBLY	1
48	DC2055-010	2 WAY BOLT ADAMS RITE P/N "MS 1880-03-682"	1
49	DC0836-010	BREAKOUT INTERLOCK CLIP	4
50	DC0838-010	ANTI-DERAIL BLOCK	4
51	DC1978-01Z	BREAKOUT STOP	2
52	DC2492-01Z	CATCH PLATE	1
53	DE0152-120	BRUSH	1



1 EXTERIOR ELEVATION  
3 N.T.S. ELEV.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 09-0415-06  
Expiration Date FEB 04 2012  
By: *[Signature]*  
Miami Dade Product Control  
Division



2 CORNER DETAIL  
3 N.T.S. ELEV.

08/10/2009



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A. FRANK L. BENNARDO, P.E., INC. INNOVATION  
CERT OF AUTH #8885

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WWW.DORMA-USA.COM



ESA 300 SERIES  
AUTOMATIC SLIDING GLASS DOORS  
(LARGE MISSILE IMPACT RESISTANT)

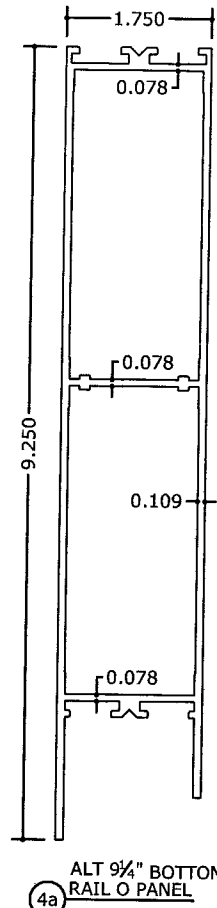
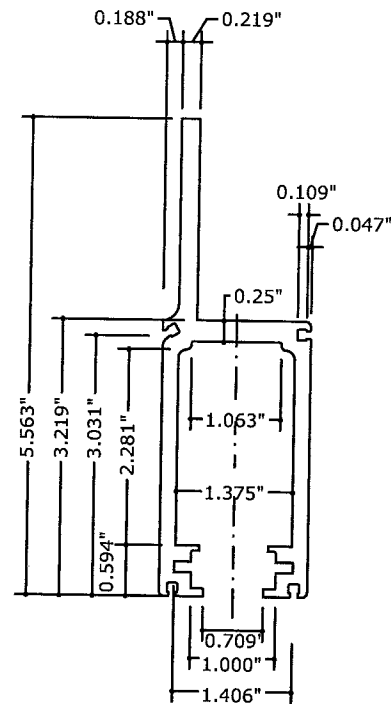
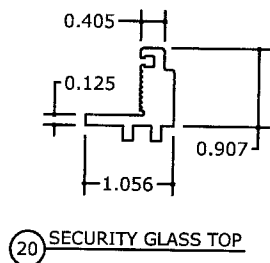
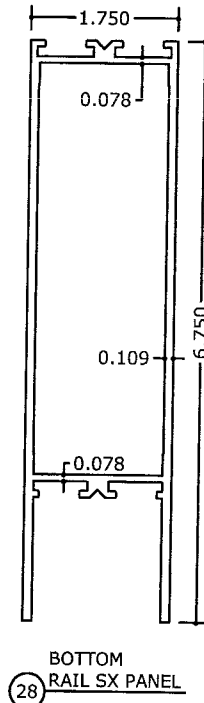
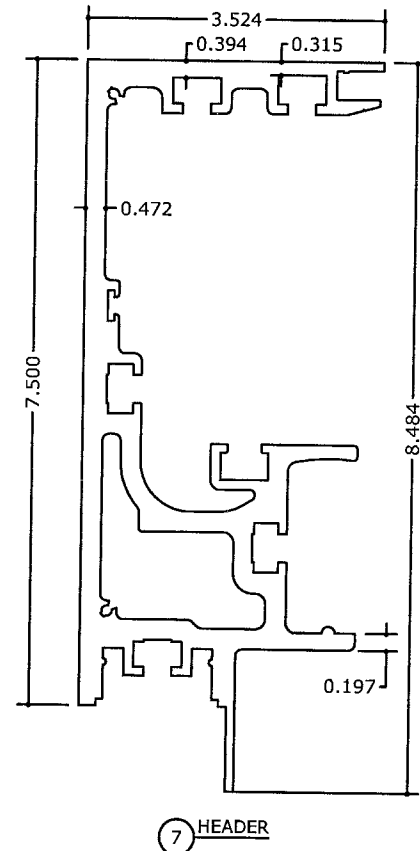
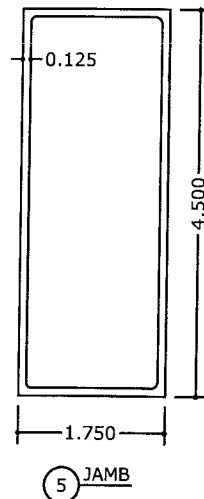
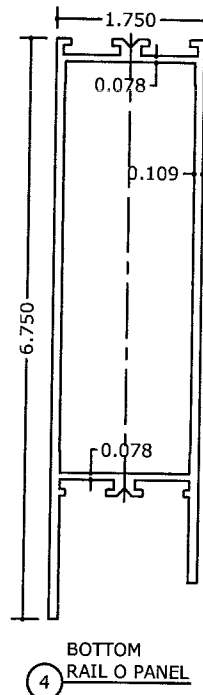
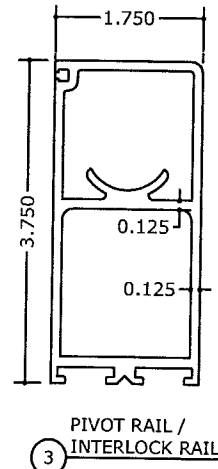
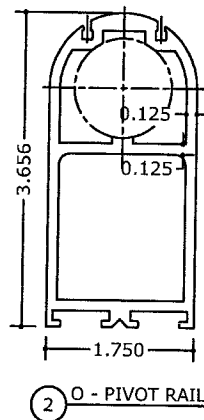
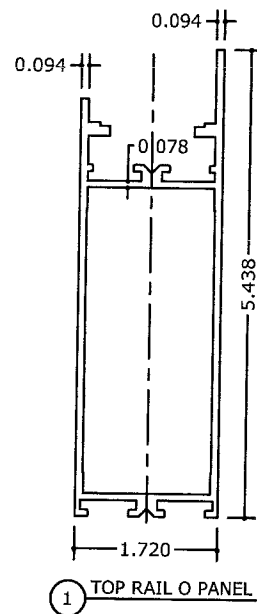
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05-DOA-0004

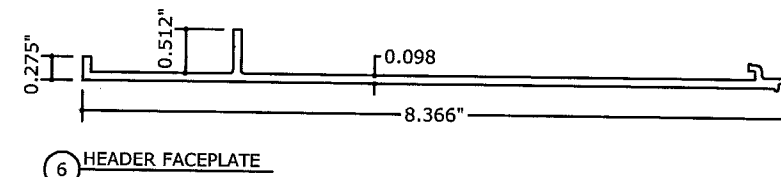
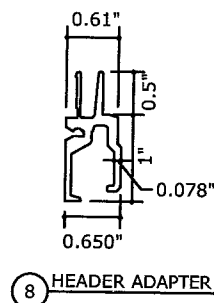
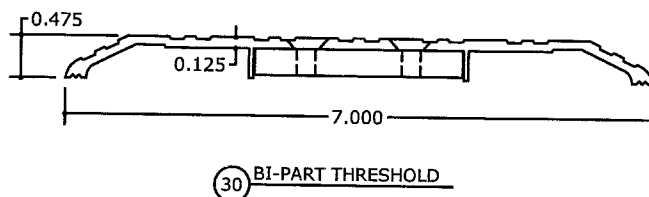
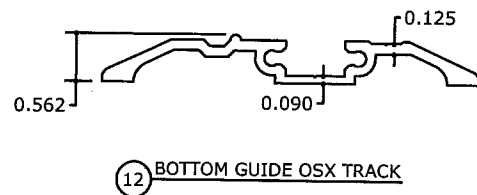
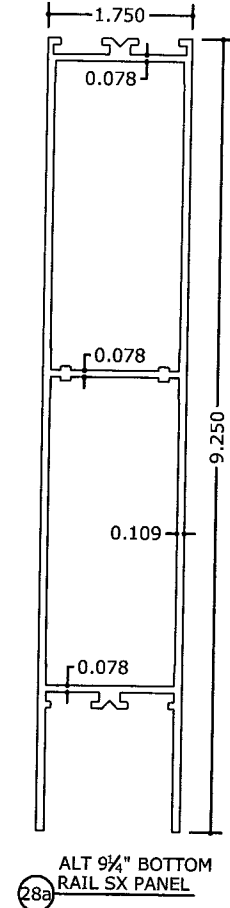
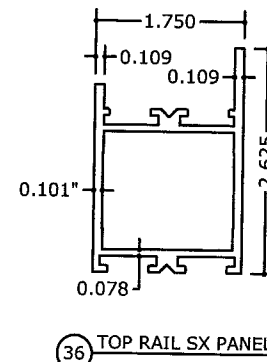
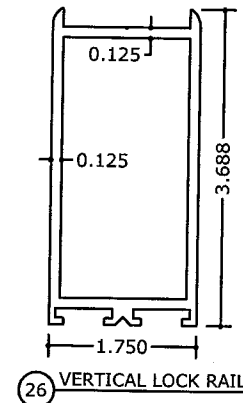
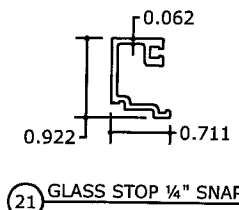
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FRANK L. BENNARDO, P.E.  
# PE0046549

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